

ATTORNEY DOCKET NO. AT-000219

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

AMIR ABOLFATHI, et al.

Application No.: 10/717,798

Filed: November 19, 2003

For: D

DENTAL TRAY CONTAINING

RADIOPAQUE MATERIALS

Customer No.: 24710

Commissioner for Patents

Mail Stop Amend P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Confirmation No.: 8972

Examiner:

Not Yet Assigned

Technology Center/Art Unit: 3732

INFORMATION DISCLOSURE

STATEMENT

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Photocopies of the foreign and non-patent references are enclosed herewith. It is respectfully requested that the cited documents be considered and that the enclosed Information Disclosure Statement by Applicant be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

This Information Disclosure Statement is being submitted under 37 C.F.R. § 1.97(b)(3).

Throughout the pendency of this application, please charge any fees, and credit all overpayments to deposit account 50-1399.

Respectfully submitted,

Dated: June <u>/3</u>, 2005

Align Technology, Inc. 881 Martin Avenue

Santa Clara, CA 95050

Tel: (408) 470-1243/Fax: (408) 470-1024

Scott M. Smith MD, JD

Reg. No. 48,268

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop: Amend, P.O. Box 1450, Alexandria, VA 22313-1450

By: Clare C. Finney

The

PTO/SB/08A (08-03) for form 1449A/PTO Complete if Known **Application Number** 10/717,798 **INFORMATION DISCLOSURE** Filing Date Nov. 19, 2003 STATEMENT BY APPLICANT First Named Inventor Amir Abolfathi Art Unit 3732 (use as many sheets as necessary) **Examiner Name** Not Yet Assigned Sheet of 10 **Attorney Docket Number** AT-000219

U.S. PATENT DOCUMENTS+									
Document Number									
Examiner Initials*	Cite No. ¹	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
	1	2,467,432	04-19-1949	Kesling					
	2	3,660,900	05-09-1972	Andrews					
	3	3,860,803	01-14-1975	Levine					
	4	3,916,526	11-04-1975	Schudy					
	5	3,950,851	04-20-1976	Bergersen					
	6	4,014,096	03-29-1977	Dellinger					
	7	4,195,046	03-25-1980	Kesling					
	8	4,324,546	04-13-1982	Heitlinger et al.					
	9	4,348,178	09-07-1982	Kurz					
	10	4,478,580	10-23-1984	Barrut					
	11	4,504,225	03-12-1985	Yoshii					
	12	4,505,673	03-19-1985	Yoshii					
	13	4,575,805	03-11-1986	Moermann, et al.					
	14	4,611,288	09-09-1986	Duret et al.					
	15	4,656,860	04-14-1987	Orthuber et al.					
	16	4,663,720	05-05-1987	Duret et al.					
	17	4,742,464	05-03-1988 Duret et al.						
	18	4,755,139	07-05-1988	Abbatte et al.					
	19	(blank)							
	20	4,793,803	12-27-1988	Martz					
	21	4,798,534	01-17-1989	Breads					
	22	4,837,732	06-06-1989	Brandestini et al.					
	23	4,850,864	07-25-1989	Diamond					
	24	4,856,991	08-15-1989	Breads et al.					
	25	4,936,862	06-26-1990	Walker et al.					
	26	4,937,928	07-03-1990	Van Der Zel					
	27	4,964,770	10-23-1990	Steinbichler et al.					
	28	4,975,052	12-04-1990	Spencer et al.					
	29	5,011,405	04-30-1991	Lemchen					
	30	5,017,133	05-21-1991	Miura					
	31	5,027,281	06-25-1991	Rekow et al.					
	32	5,035,613	07-30-1991	Breads et al.					
	33	5,055,039	10-08-1991	Abbatte et al.					
	34	5,059,118	10-22-1991	Breads et al.					
	35	5,100,316	03-31-1992	Wildman					
	36	5,121,333	06-09-1992	Riley et al.					
	37	5,128,870	07-07-1992	Erdman et al.					
	38	5,131,843	07-21-1992	Hilgers et al.					
	39	5,131,844	07-21-1992	Marinaccio et al.					
	40	5,139,419	08-18-1992	Andreiko et al.					
	41	5,184,306	02-02-1993	Erdman et al.					
Examiner Signature				Date Considered					

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Substitu	te for form 1449A/PT	0			Complete if Known
				Application Number	10/717,798
	-		SCLOSURE	Filing Date	Nov. 19, 2003
STA	TEMENT B	BY A	PPLICANT	First Named Inventor	Amir Abolfathi
				Art Unit	3732
	(use as many she	eets as	necessary)	Examiner Name	Not Yet Assigned
Sheet	2	of	10	Attorney Docket Number	AT-000219

			U.S. PATENT D	OCUMENTS+						
Document Number Publication Date Name of Patentee or Pages Columns Lines Where										
Examiner Initials*	Cite No. ¹	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear					
	42	5,186,623	02-16-1993	Breads et al.						
	43	5,257,203	10-26-1993	Riley et al.						
	44	5,273,429	12-28-1993	Rekow et al.						
	45	5,278,756	01-11-1994	Lemchen et al.						
	46	5,338,198	08-16-1994	Wu et al.						
	47	5,340,309	08-23-1994	Robertson						
	48	5,342,202	08-23-1994	Deshayes						
	49	5,368,478	11-29-1994	Andreiko et al.						
	50	5,382,164	01-17-1995	Stern						
	51	5,395,238	03-07-1995	Andreiko et al.						
	52	5,431,562	11-11-1995	Andreiko et al.						
	53	5,440,496	08-08-1995	Andersson et al.						
	54	5,447,432	09-05-1995	Andersson et al.						
	55	5,452,219	09-19-1995	Dehoff et al.						
	56	5,454,717	10-03-1995	Andreiko et al.						
_	57	5,456,600	10-10-1995	Andreiko et al.						
•	58	5,474,448	12-12-1995	Andreiko et al.						
	59	5,518,397	05-21-1996	Andreiko et al.						
	60	5,533,895	07-09-1996	Andreiko et al.						
	61	5,542,842	08-06-1996	Andreiko et al.						
	62	5,549,476	08-27-1996	Stern						
	63	5,587,912	12-24-1996	Andersson et al.						
	64	5,605,459	02-25-1997	Kuroda et al.						
	65	5,607,305	03-04-1997	Andersson et al.						
	66	5,645,421	07-08-1997	Slootsky						
	67	5,655,653	08-12-1997	Chester						
	68	5,683,243	11-04-1997	Andreiko et al.						
	69	5,733,126	03-31-1998	Andersson et al.						
	70	5,740,267	04-14-1998	Echerer et al.						
	71	5,975,893	11-02-1999	Chishti et al.						
	71A	5,440,326	08-08-1995	Quinn						

FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cito	For	eign Patent Doc	ument	Publication Date MM-DD-YYYY	Name of Patentee or	Pages, Columns, Lines,		
	Cite No. ¹	Country Code ³	Number ⁴	Kind Code ⁵ (if known)		Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶	
	72	EP	0091876	A1	10-19-1983	Duret			
	73	EP	0299490	A2	01-18-1989	Steinbichler et al.			
	74	EP	0376873	A2	07-04-1990	Shafir			
	75	EP	0490848	A2	06-17-1992	Nobelpharma AB.			

Examiner Signature	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Applicant's unique citation designation number (optional).

*Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04.

*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

*Applicant is to place a check mark here if English language Translation is attached.

*60414071 v1

PTO/SB/08A (08-03)

Substitut	te for form 1449A/PT	0		Complete if Known		
				Application Number	10/717,798	
			SCLOSURE	Filing Date	Nov. 19, 2003	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Amir Abolfathi	
				Art Unit	3732	
	(use as many sh	eets a:	s necessary)	Examiner Name	Not Yet Assigned	
Sheet	3	of	10	Attorney Docket Number	AT-000219	

				FOREIGN PA	TENT DOCUME	ENTS		
Examiner	Cite	For	eign Patent Docu	ument		Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.1	Country Code ³	Number ⁴	Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T⁰
	76	EP	0541500	A1	06-12-1998	Nobelpharma AB		
	77	EP	0731673	B1	09-18-1998	Andersson et al.		
	78	EP	0774933	B1	05-28-1997	Oden et al.		
	79	FR	2652256	A1	03-29-1991	Jourda		
	80	FR	2369828	A1	06-02-1978	Suyehiro		
	81	wo	90/08512	A1	08-09-1990	Dolphin Imaging Systems		
	82	wo	91/04713	A1	04-18-1991	Jourda et al.		
	83	wo	94/10935	A1	05-26-1994	Ormco Corporation		
	84	WO	98/44865	A1	10-15-1998	Nobel Biocare		
	85	wo	98/58596	A1	12-30-1998	Align Technology		

		
Examiner Signature	Date Considered	

Substitute f	or form 1449B/PT	0		Complete if Known		
INIEO		DIC	CLOSURE	Application Number	10/717,798	
				Filing Date	Nov. 19, 2003	
SIAI	FMFN 1 B	YA	PPLICANT	First Named Inventor	Amir Abolfathi	
				Art Unit	3732	
(use as many sheets as necessary)				Examiner Name	Not Yet Assigned	
Sheet	4	of	10	Attomey Docket Number	AT-000219	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ;
	86	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.	
	87	ALTSCHULER et al, "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," SPIE Imaging Applications for Automated Industrial Inspection and Assembly, vol. 182 (1979), p. 187-191.	
	88	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," IADR Abstracts, Program and Abstracts of Papers, 57th General Session, IADR Annual Session, March 29, 1979 - April 1, 1979, New Orleans Marriot, Journal of Dental Research, Vol. 58, January. 1979, Special Issue A, p. 221.	
	89	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.	
	90	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607,1980, 1 page total.	
	91	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	
	92	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontological Scandinavia</i> , vol. 47 (1989), pp. 279-286.	
	93	BAUMRIND et al., "A Stereophotogrammetric System for the Detection of Prosthesis Loosening in Total Hip Arthroplasty", NATO Symposium on Applications of Human Biostereometrics, July 9-13, 1978," SPIE Vol. 166, pp. 112-123.	
	94	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, California Dental Association, Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.	
	95	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp. pp.142-166.	
	96	BAUMRIND, "Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), pp. 223-232.	
	97	BEGOLE et al., "A Computer System for the Analysis of Dental Casts," <i>The Angle Orthodontist</i> , Vol. 51 No. 3 (July 1981), pp. 253-259.	
	98	BERNARD et al., "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report", Abstracts of Papers, <i>Journal of Dental Research</i> ; Vol. 67, Special Issue March 9-13, 1988, p.169.	
	99	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," British Journal of Oral and Maxillofacial Surgery, Vol. 22 (1984), pp. 237-253.	
	100	BIGGERSTAFF et al., "Computerized Analysis of Occlusion In The Postcanine Dentition," American Journal of Orthodontics, Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	

dered
ueleu
(

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Substitute	for form 1449B/PT	0		Complete if Known		
INIEO		DIG	CLOSURE	Application Number	10/717,798	
				Filing Date	Nov. 19, 2003	
SIAI	FMFN I B	YA	PPLICANT	First Named Inventor	Amir Abolfathi	
				Art Unit	3732	
(1	ise as many sh	eets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	5	of	10	Attorney Docket Number	AT-000219	

		NON PATENT LITERATURE DOCUMENTS	
Examiner nitials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
	101	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.	
	102	BOYD et al., "Three Dimensional Diagnosis and Orthodontic Treatment of Complex Malocclusions With the Invisalign Appliance"," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), p. 274-293.	
	103	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," Journal of Dental Research, Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, p. 208	
	104	BROOK et al., "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, <i>J Dent Res.</i> , Vol. 65, No. 3, March 1986, pp. 428-431.	
	105	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Parts1 and 2)," <i>Journal of Clinical Orthodontics</i> , (Part 1) Vol. 8, No. 7, July 1979; (Part 2) Vol. 8, No. 8 pp. 539-551, Aug. 1979.	
	106	BURSTONE et al., "Precision Adjustment of the Transpalatal Lingual Arch: Computer Arch Form Predetermination," Am. Journal of Orthodontics, Vol. 79, No. 2 (Feb. 1981), pp. 115-133.	
	107	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," JCO (June 1990), pp. 360-367.	
	108	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," Clinical Orthopaedics and Related Research, No. 201 (December 1985), pp. 60-67.	
	109	CHIAPPONE, "Constructing the Gnathologic Setup And Positioner" J. Clin. Orthod., 14:121-133, 1980.	
	110	COTTINGHAM, "Gnathologic Clear Plastic Positioner" Am. J. Orthod., Vol. 55, No. 1, (January 1969),. pp. 23-31.	
	111	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Chairside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites" The Computer Moves From The Front Desk To The Operatory, Canadian Dental Journal, vol. 54(9), (1988), pp. 661-666.	
	112	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" Canadian Dental Journal, Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	
	113	CROOKS, "CAD/CAM Comes to USC," USC Dentistry, (Spring 1990) pp. 14-17.	
	114	CURETON, "Correcting Malaligned Mandibular Incisors With Removable Retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.	
	115	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), pp. 258-265.	
	116	CUTTING et al., "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1986), pp. 877-885.	

Examiner Signature	Date Considered	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO Complete if Known Application Number 10/717,798 INFORMATION DISCLOSURE Filing Date Nov. 19, 2003 STATEMENT BY APPLICANT First Named Inventor Amir Abolfathi Art Unit 3732 (use as many sheets as necessary) Examiner Name Not Yet Assigned Sheet 10 Attorney Docket Number AT-000219

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	117	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges" DSC Production AG, Jan. 1992, pp. 1-7.	
	118	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," J. Biomechanics, Vol. 9 (1976), pp. 793-801.	
	119	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 2 pages total.	
	120	DenTrac Corporation, Dentrac document, pp. 4-13.	
	121	DURET et al, "CAD-CAM in Dentistry," Journal of the American Dental Association, Vol. 117 (Nov. 1988), pp. 715-720.	
	122	DURET et al., "CAD/CAM Imaging in Dentistry," Current Opinion in Dentistry, Vol. 1 (1991), pp. 150-154.	
	123	DURET, "Vers une prosthese informatisee," (English translation also attached), <i>Tonus</i> , vol. 75, (Nov. 15, 1985), pp. 55-57.	
	124	DURET, "The Dental CAD/CAM, General Description of the Project," Hennson International Product Brochure, Jan. 1986., 18 pages total.	
	125	ECONOMIDES, "The Microcomputer in the Orthodontic Office," JCO, (Nov. 1979), pp. 767-772.	
	126	ELSASSER, "Some Observations on the History and Uses of the Kesling Positioner" Am. J. Orthod., Vol. 36, No. 5, (May1950) pp. 368-374.	
	127	FABER et al.,"Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.	
	128	FELTON et al. "A computerized analysis of the shape and stability of mandibular arch form," Am. Journal of Orthodontics and Dentofacial Orthopedics, Vol. 92, No. 6 (Dec. 1987), pp. 478-483.	
	129	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery, "Abstract of Papers, Journal of Dental Research, Vol. 70 (1987), pp. 754-760.	-
	130	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik" 2 pages total.	
	131	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," Symposium: Computerized Facial Imaging in Oral and Maxilofacial Surgery Presented on September 13, 1990, AAOMS 72nd Annual Meeting and Scientific Sessions, Sept. 13, 1990, New Orleans, Journal of Oral and Maxillofacial Surgery, Vol. 48, no. 8, Supp. 1, August 1990, p. 5-6.	
	132	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery, "JCO, (April, 1989), pp. 262-28.	

Examiner	Date	
	Duto	1
Signature	Considered	
Congression .	Oolisiacica	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Substitute	for form 1449B/PTC)	_	Complete if Known		
INICO	DRAKTION	DIC	CLOCUDE	Application Number	10/717,798	
			CLOSURE	Filing Date	Nov. 19, 2003	
SIAI	EMENI B	Y AI	PPLICANT	First Named Inventor	Amir Abolfathi	
				Art Unit	3732	
(use as many she	ets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	7	of	10	Attorney Docket Number	AT-000219	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
	133	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 70,April 17-21, 1991, p. 528.	
	134	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.	
	135	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," AAOMS 1999, p. 96.	
	136	JCO Interviews, "Craig Andreiko , DDS, MS on the Elan and Orthos Systems", JCO, (Aug. 1994), pp. 459-468.	
	137	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, (Dec. 1983), pp. 819-831.	
	138	JERROLD, "The Problem, Electronic Data Transmission and the Law," AJO-DO, (Apr. 1988), pp. 478-479.	
	139	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," <i>British Journal of Orthodontics</i> , Vol. 16 (1989), pp. 85-93.	
	140	KAMADA et al., "Case Reports on Tooth Positioners Using LTV Vinyl Silicone Rubber" J. Nihon University School of Dentistry, 26(1):11-29, 1984.	
•	141	KAMADA et al., "Construction of Tooth Positioners With LTV Vinyl Silicone Rubber and Some Case Reports" J. Nihon University School of Dentistry, 24(1):1-27, 1982.	
	142	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," <i>J. Dent Res.</i> , Vol. 63, No. 11 (Nov. 1984), pp. 1298-1301.	
	143	KESLING, "Coordinating the Predetermined Pattern and Tooth Positioner With Conventional Treatment" Am. J. Orthod. Oral. Surg., 32:285-293, 1946.	
	144	KESLING, "The Philosophy of the Tooth Positioning Appliance" Am. J. Orthod. Oral. Surg., 31(6):297-304, 1945.	
	145	KLEEMANN et al., "The Speed Positioner" J. Clin. Orthod., 30:673-680, 1996.	
	146	KURODA et al., "Three-dimensional dental cast analyzing system using laser scanning" Am. J. Orthod. Dentofac. Orthop., 110:365-369, 1996.	
	147	LAURENDEAU et al., "A Computer-Vision Technique for the Acquisition and Processing of 3-D Profiles of Dental Imprints: An Application in Orthodontics," <i>IEEE Transactions on Medical Imaging</i> , Vol. 10, No. 3 (Sept. 1991), pp. 453-461.	
	148	LEINFELDER et al., "A new method for generating ceramic restorations: a CAD-CAM system," <i>Journal Of The American Dental Assoc.</i> , Vol. 118, No. 6 (Jun. 1989), pp. 703-707.	

Examiner Date Signature Considered

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Substitute	for form 1449B/P	то		Complete if Known		
INITO	DRAATIOI	N DIC	CLOCUDE	Application Number	10/717,798	
			CLOSURE	Filing Date	Nov. 19, 2003	
STAT	EMENT	BY AI	PPLICANT	First Named Inventor	Amir Abolfathi	
				Art Unit	3732	
(0	use as many s	heets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	8	of	10	Attorney Docket Number	AT-000219	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
	149	MANETTI et al., "Computer-aided Cefalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), Fortschr. Kieferorthop. 44, 370-376 (Nr. 5), 1983	
	150	MCCANN, Inside the ADA, Journal Of The American Dental Assoc., Vol. 118 (March 1989) pp. 286-294.	
	151	MCNAMARA et al., "Invisible Retainers", J. Clinical Orthodontics, (August 1985) pp. 570-578.	
	152	MCNAMARA et al., Chapter 19: Invisible Retainers, Orthodontic and Orthopedic Treatment in the Mixed Dentition, Needham Press, January 1993. pp.347-353.	
	153	MOERMANN et al., "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," IADR Abstract 339, <i>Journal of Dental Research</i> , vol. 66(a) (1987), p. 763.	
	154	MÖRMANN et al., "Marginal Adaptation von adhasiven Porzellaninlays in vitro, "Schwizerische Monatsshrift fur Zahnmedizin, Vol. 85 (1985), p. 1118-1129.	
	155	NAHOUM, "The Vacuum Formed Dental Contour Appliance" The New York State Dental Journal, 30(9):385-390, Nov. 1964.	
	156	NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," <i>Dentistry Today</i> , (October 1990), pp. 20, 22-23, 54.	
	157	NISHIYAMA et al., "A New Construction Of Tooth Repositioner By LTV Vinyl Silicone Rubber" J. Nihon University School of Dentistry, 19(2):93-102, 1977.	
	158	PINKHAM, "'Foolish' Concept Propels Technology," Dentist, Jan./Feb. 1989, 3 pages total.	
	159	PINKHAM, "Inventor's CAD/CAM May Transform Dentistry," Dentist, Sept. 1990, 3 pages total.	
	160	PONITZ," Invisible Retainers", Am. J. Orthodontics, Vol. 59, No. 3, March 1971, pp. 266-272.	
	161	Procera Research Projects, PROCERA Research Projects 1993 — Abstract Collection, 1993, pp. 3-24.	
	162	REKOW, "A Review of the Developments in Dental CAD/CAM Systems,"(contains references to Japanese efforts and content of the papers of particular interest to the clinician are indicated with a one-line summary of their content in the bibliography), Dental Clinics: <i>Prosthodontics and Endodontics</i> , pp.25-33, 1992.	
	163	REKOW, "CAD/CAM in Dentistry: A Historical Perspective and View of the Future," <i>Journal</i> , Vol. 58 No. 4, (April 1992), pp. 283, 287-288.	
	164	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," The Journal of Prosthetic Dentistry, Vol. 58, No. 4 (Oct. 1987), pp. 512-516.	1

Examiner	Date	
Signature	Considered	J

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Substitute	for form 1449B/PTO)			Complete if Known	
INFO	DRA A TION	DIE	CLOSURE	Application Number	10/717,798	
				Filing Date	Nov. 19, 2003	
SIAI	EMENI B	Y AI	PPLICANT	First Named Inventor	Amir Abolfathi	
				Art Unit	3732	
(L	ise as many she	ets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	9	of	10	Attorney Docket Number	AT-000219	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
	165	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" Journal of the American Dental Assoc., Vol. 122 (1991), pp. 43-48.	
	166	REKOW, "Feasibility of an Automated System for Production of "Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.	
	167	RICHMOND et al., Research Reports, "The Development of a 3D Cast Analysis System," British Journal of Orthodontics, Vol. 13, No. 1, (January 1986) pp. 53-54.	
	168	RICHMOND, "Recording The Dental Cast In Three Dimensions," Am. J. Orthod. Dentofac. Orthop., Vol. 92, No. 3, (Sept. 1987), pp.199-206.	
	169	RUDGE, "Dental arch analysis: Arch Form, A review of the literature," European Journal of Orthodontics, Vol. 3, No. 4 (1981), pp.279-284.	
	170	SAKUDA et al., "Integrated information-processing system in clinical orthodontics: An approach with use of a computer network system," <i>Am. J. Orthod. Dentofac. Orthop.</i> Vol. 101 No. 3 (March 1992), pp. 210-220.	
	171	SCHELLHAS et al., "Three-Dimensional Computed Tomography in Maxillofacial Surgical Planning," Arch Otolamgol Head Neck Surg. Vol. 114 (April 1988), pp. 438-442.	
	172	SHILLIDAY, "Minimizing Finishing Problems With the Mini-Positioner" Am. J. Orthod. 59:596-599, 1971	
	173	Siemens, "CEREC - Computer-Reconstruction, "High Tech in der Zahnmedizin, 14 page total.	
	174	Sirona Dental Systems GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.	
	175	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), Dtsch Zahnärzti Z 45, 314-322, 1990.	
	176	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 20 pages total.	
	177	U.S. Department of Commerce, National Technical Information Service, "Holodontography: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.	
	178	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.	
	179	VAN DER LINDEN et al., "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res</i> , July-August 1972, Vol. 51, No. 4, p. 1101.	
	180	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.	

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO		Complete if Known			
INIEOE	IAOLT A NAC	DIE	CLOSUBE	Application Number	10/717,798
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	Nov. 19, 2003
			PPLICANT	First Named Inventor	Amir Abolfathi
				Art Unit	3732
(use as many sheets as necessary)		Examiner Name	Not Yet Assigned		
Sheet	10	of	10	Attorney Docket Number	AT-000219

	1	NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т
	181	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," Quintessence International, vol. 24(11) (1993), pp. 769-778.	
	182	VARADY et al., "Reverse Engineering Of Geometric ModelsAn Introduction. Computer-Aided Design, 29 (4):255268, 1997.	
	183	WARUNEK et al., "Clinical Use Of Silicone Elastomer Appliances" JCO, MH (10):694-700, 1989.	
	184	WARUNEK et al., "Physical And Mechanical Properties of Elastomers In Orthodontic Positioners" Am. J. Orthod. Dentofac. Orthop., 95:388-400, 1989.	
	185	WELLS, "Application of the Positioner Appliance in Orthodontic Treatment" <i>Am. J. Orthodont.</i> , 58:351-366, 1970.	
	186	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution, "Journal of Dental Practice Admin., Jan./March 1987, pp. 2-5.	
	187	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," Journal of Dental Practice Admin., pp. 50-55, April/June 1987.	
	188	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing, " Symposium: Computerized Facial Imaging in Oral and Maxilofacial Surgery Presented on September 13, 1990, AAOMS 72nd Annual Meeting and Scientific Sessions, Sept. 13, 1990, New Orleans, Journal of Oral and Maxillofacial Surgery, Vol. 48, no. 8, Supp. 1, August 1990, p. 5.	
	189	YAMAMOTO et al., "Three-Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society, Vol. 12, No. 5, pp. 2051-2053, 1990	
	190	YAMAMOTO et al., "Optical Measurement of Dental Cast Profile and Application to Analysis of Three- Dimensional Tooth Movement in Orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.	

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.